

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PT11791 WO	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/EP2005/050198	International filing date (day/month/year) 19/01/2005	(Earliest) Priority Date (day/month/year) 30/01/2004
Applicant VOITH FABRICS PATENT GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☒ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A system for drying a tissue or hygiene web includes a permeable structured fabric (4) carrying the web (W) over a drying apparatus (9). A permeable dewatering fabric (7) contacts the web and is guided over the drying apparatus. A mechanism is used to apply pressure to the permeable structured fabric, the web, and the permeable dewatering fabric at the drying apparatus.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-55,59-77,121,137-145

apparatus and method for drying a web by pressing the web
between two fabrics

2. claim: 56

method for connecting an anti-rewet layer to a base fabric
layer of a permeable dewatering fabric including melting a
thin elastomeric cast permeable membrane into the base
fabric layer

3. claims: 57-58

method for connecting an anti-rewet layer to a base fabric
of a permeable dewatering fabric comprising needling with
each other thin layers of batt fibers disposed on the face
and back sides of the base fabric layer.

4. claims: 78-120, 122-136

belt press for a paper machine and press belt

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D21F11/00 D21F3/02 D21F7/08 D21F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓ A	WO 03/062528 A (VOITH PAPER PATENT GMBH; HERMAN, JEFFREY; BECK, DAVID, A; SCHERB, THOM) 31 July 2003 (2003-07-31) cited in the application page 6, paragraph 3 - page 17, paragraph 4 page 23, paragraph 3 - page 31, paragraph 3 figures 1,3,5,6 ----- -/--	1-7, 17-20, 26,35, 38, 40-42, 49, 51-55, 62-65, 73-77, 121, 137-142 78,98, 99,122

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

18 May 2005

Date of mailing of the international search report

22. 06. 2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓ A	US 5 701 682 A (CHUANG ET AL) 30 December 1997 (1997-12-30) column 4, line 32 - column 12, line 14 figure 1	1-3,5-7, 20,26, 31,32, 35,38, 42,51, 55, 59-69, 73,77, 121, 137-143 78,98, 99,122
X ✓ A	US 2003/033727 A1 (STELLJES MICHAEL GOMER ET AL) 20 February 2003 (2003-02-20) paragraph '0033! - paragraph '0087! figures 2-4	1-3,5-7, 16-20, 22-28, 35-38, 62-64, 73,74, 77,121, 137,142 78,98, 99,122
X ✓ A	US 2003/056925 A1 (BECK DAVID A) 27 March 2003 (2003-03-27) paragraph '0021! - paragraph '0035! figures 1,6	1-7, 17-20, 26,32, 38,42, 51,55, 59-61, 65,69, 73,74, 77,121, 137,142 78,98, 99,122
X ✓ A	US 6 051 105 A (AMPULSKI ET AL) 18 April 2000 (2000-04-18) column 9, line 36 - column 12, line 56 ----- -/--	1-3, 7-10,14, 20,26, 29,30, 32-41, 59-64, 69,72, 73,75,77

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓	US 6 149 767 A (HERMANS ET AL) 21 November 2000 (2000-11-21) column 4, line 28 - column 5, line 16 column 9, line 32 - line 56 column 11, line 11 - column 19, line 27 -----	1,4-7, 20,26, 38,73, 74,77, 121,137, 142-144
X ✓	US 6 436 240 B1 (JEFFREY JOHN) 20 August 2002 (2002-08-20) column 1, line 24 - line 60 column 2, line 6 - line 23 -----	56
X ✓	EP 1 293 602 A (ICHIKAWA CO.,LTD) 19 March 2003 (2003-03-19) paragraph '0028! - paragraph '0033! figures 1,2 -----	57
Y		58
X ✓	EP 0 878 579 A (APPLETON MILLS) 18 November 1998 (1998-11-18) page 4, line 15 - page 5, line 13 figure 2 -----	57
Y ✓	US 4 162 190 A (ASHWORTH, GORDON) 24 July 1979 (1979-07-24) column 7, line 14 - line 19 figure 1 -----	58
A ✓	DE 196 27 891 A1 (VOITH SULZER PAPIERMASCHINEN GMBH, 89522 HEIDENHEIM, DE) 15 January 1998 (1998-01-15) column 5, line 67 - column 6, line 29 figure 2 -----	78,98, 99,122
A ✓	EP 0 658 649 A (APPLETON MILLS) 21 June 1995 (1995-06-21) abstract figure 5 -----	99

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